

Syllabus – PreCalculus

Instructor – Mr Lynch

Room 4-214

Email – lynchr@pcsb.org

Office hours: 6:30-7:00am daily
2:00-2:30pm daily

Description: Pre-Calculus is a full year course comprised of two main topics – trigonometry and analytical geometry. The primary focus of this course is on preparing juniors (and possibly sophomores) to take AP Calculus AB next year or for seniors intending to take calculus in college. Incoming students must have taken (and ideally excelled in) Algebra II Honors last year. Trigonometry is the study of triangles, with a focus on the sine, cosine, and tangent functions. In analytical geometry, we will focus on additional functions, including polynomial, rational, exponential, and logarithmic functions. Our last topic of the year is an introduction to calculus, with a focus on limits.

Key Resources: Textbook – Pre-Calculus, Blitzer 4th Edition
Online Homework: MathXLforSchool – more details to follow.
Khan Academy – www.khanacademy.org – join code **BPVW22MG**
Internet – patrickjmt.com, BCHS website, paul’s online notes
Additional internet resources abound

Bring to Every Class: Online HW problems or Khan Academy problems that you struggle with
Cornell notes from the textbook
Optional (but recommended) – graphing calculator, graphing paper, colored pencils

Expectations: Cell phones are NOT allowed during class.
Students to follow all Boca Ciega HS and PCSB rules and regulations.
Students to wisely use their time in class to learn precalculus.
Students to actively pursue additional resources to supplement in class lessons.
Students to immediately seek help (during class, before/after school, online) if necessary.
Tests/Quizzes are taken without notes or internet, unless otherwise specified.

Grading Policy: **Most homework will be assigned through MathXL for School.** Homework is vital. It is extremely unlikely you will pass the class if you do not do the homework.

<u>Item</u>	<u>Frequency per Marking Period</u>	<u>Approximate Weight</u>
Tests / Quizzes	roughly 2 tests / 4 quizzes	50%
Homework / Khan	roughly 10 assignments	35%
Cornell Notes	almost every class	15%

Course Topics:

1. Review of fractions, factoring, and polynomials
2. Radians and the unit circle, trig ratios
3. The six trig functions – sine, cosine, tangent, secant, cosecant, cotangent
4. Right triangle trigonometry, Law of sines, Law of cosines, and applications
5. Trig equations and identities
6. Exponential and logarithmic functions
7. Conic sections, time permitting
8. An introduction to calculus - limits

RECOMMENDATIONS:

- 1) Learn the unit circle.
- 2) Form a study group.
- 3) Do NOT get behind. Get help from me, friends, tutor, online.
- 4) Suggestion - get a TI-84 or equivalent and learn how to use it.
- 5) Resist the temptation to cheat. You will regret it.